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SECRETS-E-C-R-E-T

50X1-HUM

Specifications

Type motor	AL-32/2, 17 kw
Current	3-phase, alternating
Voltage	
Primary	220/380
Secondary	36 plus 10 percent
Current frequency (cps)	
Primary	50
Secondary	200
Rotor speed (rpm)	
Synchronous	3,000
Under full load	2,900
Required power (kw)	1.8
Power factor	
Of motor	0.85
Of aggregate	0.7
Efficiency coefficient of aggregate	0.58
Power put out by aggregate (kva)	1.5
Over-all dimensions (mm)	300 x 330 x 550
Weight of aggregate (kg)	40

The Elektroiinstrument Plant is now working with the Khar'kov Polytechnical Institute to develop a single-machine frequency converter, lighter, stronger, and more efficient than the present one.

NUT TIGHTENER ELECTRIC ALLY POWERED -- Moscow, Mekhanizatsiya Stroitel'stva, Mar 51

The Elektroiinstrument Plant has begun series production of the new I-91 electric nut tightener. The machine consists essentially of a motor, reduction mechanism, and a striking pawl, which rotates the spindle attached to the tightener head.

Specifications

Current used	3-phase alternating
Type motor	Asynchronous, short-circuiting
Voltage	36, or, in special cases, 220
Frequency of current (cps)	200
Power of motor (w)	800
Synchronous rpm	
Of motor	12,000
Of spindle	630
Frequency of striking pawl impulses (synchronous strikes/min)	1,260
Max diam of threads of parts tightened (mm)	18
Rated moment exerted on nut in 5 sec (kg-cm)	1,200
Over-all dimensions of machine (mm)	115 x 470 x 625
Weight (kg)	10
Time required to tighten one nut (sec)	5

SPRAY COMPRESSOR HAS STANDARD PARTS -- Moscow, Mekhanizatsiya Stroitel'stva, Jan 51

The Vil'nyus Painting-Apparatus Plant, in collaboration with the Pnevmoinstrument Plant imeni Kalinin of the Ministry of Construction- and Road-Machine Building, has begun production of a new portable paint-spraying aggregate, consisting of a compressor, oil filter, and spray gun.

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The compressor, designated the O-21, is powered by an 0.8-kilowatt electric motor. This motor is made of parts which go into the manufacture of the I-20 electric saw, put out by the Krasniy Mayak Plant. The machine's single cylinder has the same diameter as the cylinders of the Moskva motor-cycle engine and of the ZIS-150 and YaAZ-204 compressors, so that piston rings, wrist pins, pin screws, and rollers for connecting-rod bearings produced by the automobile and tractor industry, can be used in them. The intake and exhaust valves are of the plate type and have plates and springs of the same dimensions as those used in the ZIS-150 and YaAZ-200 compressors.

Productivity of the compressor is 0.1 cubic meters per minute; the working air pressure is 3 atmospheres. The cylinder is 52 millimeters in diameter; the stroke of the piston is 30 millimeters. The crankshaft makes 2,700 revolutions per minute. The compressor weighs 16 kilograms, and measures 360 x 190 x 184 millimeters.

The spray gun is designated the O-18, and may be carried in a special hand case with the oil filter. The compressor itself, equipped with a handle, is carried separately.

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